



## SEQUENCE LISTING

<110> UNIVERSITY OF BRITISH COLUMBIA  
HANCOCK, Robert E. W.  
FINLAY, B. Brett  
GOUGH SCOTT, Monisha  
BOWDISH, Dawn  
ROSENBERGER, Carrie Melissa  
STEVENS POWERS, Jon-Paul

<120> EFFECTORS OF INNATE IMMUNITY DETERMINATION

<130> UBC1180-2

<140> US 10/661,471  
<141> 2003-09-12

<150> US 10/308,905  
<151> 2002-12-02

<150> US 60/336,632  
<151> 2001-12-03

<160> 66

<170> PatentIn version 3.1

<210> 1  
<211> 37  
<212> PRT  
<213> Homo sapiens

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Leu Leu Gly Asp Phe Phe Arg Lys Ser Lys Glu Lys Ile Gly Lys Glu  
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Phe Lys Arg Ile Val Gln Arg Ile Lys Asp Phe Leu Arg Asn Leu Val  
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Pro Arg Thr Glu Ser  
35

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<213> Bovine

<400> 2

Ile Leu Pro Trp Lys Trp Pro Trp Trp Pro Trp Arg Arg  
1 5 10

<210> 3  
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<400> 3

Arg Leu Ala Arg Ile Val Val Ile Arg Val Ala Arg  
1 5 10

<210> 4

<211> 14

<212> PRT

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<223> Cationic peptide

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<223> Xaa is independently R, L or K and one or both may be present

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<222> (3)..(3)

<223> Xaa is one of C, S or A

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<222> (11)..(11)

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Xaa Xaa Xaa Xaa Ile Xaa Pro Xaa Ile Pro Xaa Xaa Xaa Xaa  
1 5 10

<210> 5

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Leu Leu Cys Arg Ile Val Pro Val Ile Pro Trp Cys Lys  
1 5 10

<210> 6

<211> 14

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<220>

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Leu Arg Cys Pro Ile Ala Pro Val Ile Pro Val Cys Lys Lys  
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<210> 7

<211> 13

<212> PRT

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<223> Cationic peptide

<400> 7

Lys Ser Arg Ile Val Pro Ala Ile Pro Val Ser Leu Leu  
1 5 10

<210> 8

<211> 13

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<213> Artificial sequence

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Lys Lys Ser Pro Ile Ala Pro Ala Ile Pro Trp Ser Arg

1 5 10

<210> 9  
<211> 14  
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Arg Arg Ala Arg Ile Val Pro Ala Ile Pro Val Ala Arg Arg  
1 5 10

<210> 10  
<211> 13  
<212> PRT  
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<220>  
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<400> 10

Leu Ser Arg Ile Ala Pro Ala Ile Pro Trp Ala Lys Leu  
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<222> (15)..(16)

<223> Xaa is D, E, S, T or N and one or both may be present

<400> 11

Xaa	Xaa	Leu	Xaa	Xaa	Xaa	Lys	Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Xaa
1				5					10					15	

<210> 12

<211> 13

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<400> 12

Asp	Leu	Pro	Ala	Lys	Arg	Gly	Ser	Ala	Pro	Gly	Ser	Thr
1				5					10			

<210> 13

<211> 14

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<400> 13

Ser Glu Leu Pro Gly Leu Lys His Pro Cys Val Pro Gly Ser  
1 5 10

<210> 14

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> Cationic peptide

<400> 14

Thr Thr Leu Gly Pro Val Lys Arg Asp Ser Ile Pro Gly Glu  
1 5 10

<210> 15

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> Cationic peptide

<400> 15

Ser Leu Pro Ile Lys His Asp Arg Leu Pro Ala Thr Ser  
1 5 10

<210> 16

<211> 12

<212> PRT

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<223> Cationic peptide

<400> 16

Glu Leu Pro Leu Lys Arg Gly Arg Val Pro Val Glu  
1 5 10

<210> 17

<211> 14

<212> PRT

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<400> 17

Asn Leu Pro Asp Leu Lys Lys Pro Arg Val Pro Ala Thr Ser  
1 5 10

<210> 18  
 <211> 19  
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<220>  
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<220>  
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<220>  
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 <222> (5)..(6)  
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 <222> (7)..(7)  
 <223> Xaa is one of P or K

<220>  
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 <223> Xaa is chosen from A, P, Y or W and one, both or none may be present

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<400> 18

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa Xaa Trp Xaa Xaa Xaa  
 1 5 10 15

Xaa Xaa Lys

<210> 19  
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<400> 19

Arg Pro Arg Tyr Pro Trp Trp Pro Trp Trp Pro Tyr Arg Pro Arg Lys  
 1 5 10 15

<210> 20  
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<400> 20

Arg Arg Ala Trp Trp Lys Ala Trp Trp Ala Arg Arg Lys  
 1 5 10

<210> 21  
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<400> 21

Arg Ala Pro Tyr Trp Pro Trp Ala Trp Ala Arg Pro Arg Lys  
 1 5 10

<210> 22  
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<400> 22

Arg Pro Ala Trp Lys Tyr Trp Trp Pro Trp Pro Trp Pro Arg Arg Lys  
 1 5 10 15

<210> 23



<211> 14  
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<400> 23

Arg Ala Ala Phe Lys Trp Ala Trp Ala Trp Trp Arg Arg Lys  
 1 5 10

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<400> 24

Arg Arg Arg Trp Lys Trp Ala Trp Pro Arg Arg Lys  
 1 5 10

<210> 25  
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 <223> Xaa is C, S, M, D or A

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<400> 25

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val Xaa Xaa Arg Gly Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa Xaa Xaa Xaa  
 20

<210> 26  
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<400> 26

Arg	Arg	Met	Cys	Ile	Lys	Val	Cys	Val	Arg	Gly	Val	Cys	Arg	Arg	Lys
1				5					10					15	

Cys Arg Lys

<210> 27  
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<220>  
 <223> Cationic peptide

<400> 27

Lys	Arg	Ser	Cys	Phe	Lys	Val	Ser	Met	Arg	Gly	Val	Ser	Arg	Arg	Arg
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Cys Lys

<210> 28  
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<400> 28

Lys	Lys	Asp	Ala	Ile	Lys	Lys	Val	Asp	Ile	Arg	Gly	Met	Asp	Met	Arg
1				5					10					15	

Arg Ala Arg

<210> 29  
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<220>  
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<400> 29

Arg	Lys	Met	Val	Lys	Val	Asp	Val	Arg	Gly	Ile	Met	Ile	Arg	Lys	Asp
1				5					10					15	

Arg Arg

<210> 30  
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<220>  
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<400> 30

Lys	Gln	Cys	Val	Lys	Val	Ala	Met	Arg	Gly	Met	Ala	Leu	Arg	Arg	Cys
1				5					10					15	

Lys

<210> 31  
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 <212> PRT  
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<220>  
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<400> 31

Arg	Arg	Glu	Ala	Ile	Arg	Arg	Val	Ala	Met	Arg	Gly	Arg	Asp	Met	Lys
1				5					10					15	

Arg Met Arg Arg  
 20

<210> 32  
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 <223> Xaa is R or K

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<223> Xaa is a polar or charged amino acid (S, T, M, N, Q, D, E, K, R and H)

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<223> Xaa is one of C, S, M, D or A

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<223> Xaa is one of F, I, V, M or R

<220>  
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<223> Xaa is R or K and one or both may be present

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<222> (8)..(8)  
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<222> (9)..(9)  
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<222> (12)..(12)  
<223> Xaa is one of F, I, V, M or R

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<220>  
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 <222> (17)..(17)  
 <223> Xaa is R or K

<400> 32

Xaa Xaa Xaa Xaa Xaa Xaa Val Xaa Xaa Arg Gly Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa

<210> 33  
 <211> 18  
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 <213> Artificial sequence

<220>  
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<400> 33

Arg Thr Cys Val Lys Arg Val Ala Met Arg Gly Ile Ile Arg Lys Arg  
 1 5 10 15

Cys Arg

<210> 34  
 <211> 19  
 <212> PRT  
 <213> Artificial sequence

<220>  
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<400> 34

Lys Lys Gln Met Met Lys Arg Val Asp Val Arg Gly Ile Ser Val Lys  
 1 5 10 15

Arg Lys Arg

<210> 35

<211> 17  
 <212> PRT  
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<220>  
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<400> 35

Lys Glu Ser Ile Lys Val Ile Ile Arg Gly Met Met Val Arg Met Lys  
 1 5 10 15

Lys

<210> 36  
 <211> 17  
 <212> PRT  
 <213> Artificial sequence

<220>  
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<400> 36

Arg Arg Asp Cys Arg Arg Val Met Val Arg Gly Ile Asp Ile Lys Ala  
 1 5 10 15

Lys

<210> 37  
 <211> 19  
 <212> PRT  
 <213> Artificial sequence

<220>  
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<400> 37

Lys Arg Thr Ala Ile Lys Lys Val Ser Arg Arg Gly Met Ser Val Lys  
 1 5 10 15

Ala Arg Arg

<210> 38  
 <211> 18  
 <212> PRT  
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<220>  
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<400> 38

Arg His Cys Ile Arg Arg Val Ser Met Arg Gly Ile Ile Met Arg Arg  
1 5 10 15

Cys Lys

<210> 39

<211> 31

<212> PRT

<213> Artificial sequence

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<222> (2)..(2)

<223> Xaa is a polar amino acid (C, S, T, M, N and Q)

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<222> (4)..(4)

<223> Xaa is one of A, L, S or K

<220>

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<222> (6)..(6)

<223> Xaa is one of A, L, S or K

<220>

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<222> (11)..(11)

<223> Xaa is one of A, L, S or K

<220>

<221> MISC\_FEATURE

<222> (16)..(16)

<223> Xaa is one of A, L, S or K

<220>

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<222> (16)..(31)

<223> Xaa is amino acids chosen from G, A, V, L, I, P, F, S, T, K and H  
and one to seventeen may be present

<400> 39

Lys Xaa Lys Xaa Phe Xaa Lys Met Leu Met Xaa Ala Leu Lys Lys Xaa  
1 5 10 15



Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
                   20                                  25                                  30

<210> 40  
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<220>  
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<400> 40

Lys Cys Lys Leu Phe Lys Lys Met Leu Met Leu Ala Leu Lys Lys Val  
 1                  5                                  10                                  15

Leu Thr Thr Gly Leu Pro Ala Leu Lys Leu Thr Lys  
                   20                                  25

<210> 41  
 <211> 26  
 <212> PRT  
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<220>  
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<400> 41

Lys Ser Lys Ser Phe Leu Lys Met Leu Met Lys Ala Leu Lys Lys Val  
 1                  5                                  10                                  15

Leu Thr Thr Gly Leu Pro Ala Leu Ile Ser  
                   20                                  25

<210> 42  
 <211> 27  
 <212> PRT  
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<220>  
 <223> Cationic peptide

<400> 42

Lys Thr Lys Lys Phe Ala Lys Met Leu Met Met Ala Leu Lys Lys Val  
 1                  5                                  10                                  15

Val Ser Thr Ala Lys Pro Leu Ala Ile Leu Ser  
                   20                                  25

<210> 43  
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<400> 43

Lys Met Lys Ser Phe Ala Lys Met Leu Met Leu Ala Leu Lys Lys Val  
1 5 10 15

Leu Lys Val Leu Thr Thr Ala Leu Thr Leu Lys Ala Gly Leu Pro Ser  
20 25 30

<210> 44

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Cationic peptide

<400> 44

Lys Asn Lys Ala Phe Ala Lys Met Leu Met Lys Ala Leu Lys Lys Val  
1 5 10 15

Thr Thr Ala Ala Lys Pro Leu Thr Gly  
20 25

<210> 45

<211> 26

<212> PRT

<213> Artificial sequence

<220>

<223> Cationic peptide .

<400> 45

Lys Gln Lys Leu Phe Ala Lys Met Leu Met Ser Ala Leu Lys Lys Lys  
1 5 10 15

Thr Leu Val Thr Thr Pro Leu Ala Gly Lys  
20 25

<210> 46

<211> 26

<212> PRT

<213> Artificial sequence

<220>

<223> Cationic peptide

<220>

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<222> (1)..(26)  
 <223> Xaa at residues 4, 7, 8, 10, 11,14, 15 is a hydrophobic amino acid

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 <222> (1)..(26)  
 <223> Xaa at residues 5, 6, 9, 12, 13 is a hydrophilic amino acid

<400> 46

Lys Trp Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ile  
 1 5 10 15

Phe His Thr Ala Leu Lys Pro Ile Ser Ser  
 20 25

<210> 47  
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 <212> PRT  
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<220>  
 <223> Cationic peptide

<400> 47

Lys Trp Lys Ser Phe Leu Arg Thr Phe Lys Ser Pro Val Arg Thr Ile  
 1 5 10 15

Phe His Thr Ala Leu Lys Pro Ile Ser Ser  
 20 25

<210> 48  
 <211> 26  
 <212> PRT  
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<220>  
 <223> Cationic peptide

<400> 48

Lys Trp Lys Ser Tyr Ala His Thr Ile Met Ser Pro Val Arg Leu Ile  
 1 5 10 15

Phe His Thr Ala Leu Lys Pro Ile Ser Ser  
 20 25

<210> 49  
 <211> 26  
 <212> PRT  
 <213> Artificial sequence

&lt;220&gt;

&lt;223&gt; Cationic peptide

&lt;400&gt; 49

Lys	Trp	Lys	Arg	Gly	Ala	His	Arg	Phe	Met	Lys	Phe	Leu	Ser	Thr	Ile
1				5					10					15	

Phe	His	Thr	Ala	Leu	Lys	Pro	Ile	Ser	Ser
			20					25	

&lt;210&gt; 50

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Cationic peptide

&lt;400&gt; 50

Lys	Trp	Lys	Lys	Trp	Ala	His	Ser	Pro	Arg	Lys	Val	Leu	Thr	Arg	Ile
1				5					10					15	

Phe	His	Thr	Ala	Leu	Lys	Pro	Ile	Ser	Ser
			20					25	

&lt;210&gt; 51

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Cationic peptide

&lt;400&gt; 51

Lys	Trp	Lys	Ser	Leu	Val	Met	Met	Phe	Lys	Lys	Pro	Ala	Arg	Arg	Ile
1				5					10					15	

Phe	His	Thr	Ala	Leu	Lys	Pro	Ile	Ser	Ser
			20					25	

&lt;210&gt; 52

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Cationic peptide

&lt;400&gt; 52

Lys	Trp	Lys	His	Ala	Leu	Met	Lys	Ala	His	Met	Leu	Trp	His	Met	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

Phe His Thr Ala Leu Lys Pro Ile Ser Ser  
20 25

<210> 53  
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<220>  
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<400> 53

Lys Trp Lys Ser Phe Leu Arg Thr Phe Lys Ser Pro Val Arg Thr Val  
1 5 10 15

Phe His Thr Ala Leu Lys Pro Ile Ser Ser  
20 25

<210> 54  
<211> 26  
<212> PRT  
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<220>  
<223> Cationic peptide

<400> 54

Lys Trp Lys Ser Tyr Ala His Thr Ile Met Ser Pro Val Arg Leu Val  
1 5 10 15

Phe His Thr Ala Leu Lys Pro Ile Ser Ser  
20 25

<210> 55  
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<212> DNA  
<213> Artificial sequence

<220>  
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